Figure 1 (SEQ 1D NO: 724)

85P1B3 SSH sequence and GenBank homology to OIP5

GATCAGAGGACACATGGGACTCTGCATCTTAATTCCTAAATTTACAGTCAAAGACATTTTCAG AGATAAGTATTATGAATTCAATAAGAATCTAAAGTAAGTTCTTAAGGCAAATAGCTATAAAA GAGAAGAATCCTTAGTCTCTCATCTTCTAAAAACAGCTTCACAAATAATTTGGAAAAATCAGCC TAAAGGTAAATAGAAACTGCATTTCCCCTCCATTCTTGAAGCCAATCTTTTTCAAGAAATGAC TAAGCAGCACCTGTTGTTGAAGACAGCAATAAAGCCTGAACCTGACACTCAAGCTTTGGTACA GGATC

gb|AF025441.1|AF025441 Homo sapiens Opa-interacting protein... 632 e-179 gb|AF158642.1|AF158642 Homo sapiens metalloproteinase-disin... 42 0.12 gb|AC005075.2|AC005075 Homo sapiens clone RG219E16, complet... 42 0.12 emb|AL096773.6|HS1000E10 Human DNA sequence from clone 1000... 40 0.48

>gb|AF025441.1|AF025441 Homo sapiens Opa-interacting protein OIP5 mRNA, partial cds Length = 1197

Score = 632 bits (319), Expect = e-179 Identities = 319/319 (100%) Strand = Plus / Minus

gatcagaggacacatgggactctgcatcttaattcctaaatttacagtcaaagacatttt 60 Query: 1 Sbjct: 1013 gatcagaggacacatgggactctgcatcttaattcctaaatttacagtcaaagacatttt 954 Query: 61 Sbict: 953 taaaagagaagaatccttagtctctcatcttctaaaaaacagcttcacaaataatttggaa 180 Query: 121 taaaagagaagaatccttagtctctcatcttctaaaaaacagcttcacaaataatttggaa 834 Sbjct: 893 aatcagcctaaaggtaaatagaaactgcatttcccctccattcttgaagccaatcttttt 240 Query: 181 Sbict: 833 aatcagcctaaaggtaaatagaaactgcatttcccctccattcttgaagccaatctttt 774 caagaaatgactaagcagcacctgttgttgaagacagcaataaagcctgaacctgacact 300 Query: 241 caagaaatgactaagcagcacctgttgttgaagacagcaataaagcctgaacctgacact 714 Sbjct: 773 caagetttggtacaggate 319 (SEQ IDNO.725) Query: 301 caagetttggtacaggate 695 (SEQ ID NO:726) Sbjct: 713

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	P	P	R	G	D	F	С	G	G	т	E	R	A	1	D	Q	A	S
	TTT	ACG	117 ACC	TCC	atg	126 GAG	TGG		135 ACG	CAG	GTG	144 GTG	AAG	GGG	153 TCC	TCG	CCG	162 CTC
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	TGG	CTG	225 CAG	CCT	GAG	234 AGG	TGC	GCT	243 GTG	TTC	CAG	252 TGC	GCA	CAG	261 TGT	CAC	GCA	270 GTG
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	GTC	TTC	333 TCC	AGA	GTT	342 ACA	AAT	AAC	351 GTC	GTT	TTG	360 GAA		ccc	369 TTC		GTT	378 GGC
		F	s	R	v	T	N	N	v	v	L	E	A	P	F	L	v	G
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TGC	AGT	TTC	TAT	TTA	CCT	TTA	GGC	TGA	TTT	TCC	AAA	TTA	TTT	GTG	AAG	CTG	TTT
		873						891			900			909			
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GCA	TGG	TTG	GTC	TGA	AAA	TAG	AGT	TGG	GCT	TAA	TGT	TGA	CTT	CTA	TTA	CTC	
			-					1107			1116			 1125			1134
CAT		1089 GCA	GTT	GTT	ATG	AAT	ACT	AAT	ACA	TCA	CTT	TTT	AAC	TTC	TGT	AAA	
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		1143															1188
CAG	ATC	ATA	ATA	. TTC	TAT	AGG	TAA	161		AIA							
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		1251			1260												
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Figure 3

85P1B3/OIP5 protein sequence. (SEQ 10 NO: 729)

- 1 MAAQPLRHRS RCATPPRGDF CGGTERAIDQ ASFTTSMEWD TQVVKGSSPL GPAGLGAEEP 61 AAGPQLPSWL QPERCAVFQC AQCHAVLADS VHLAWDLSRS LGAVVFSRVT NNVVLEAPFL 121 VGIEGSLKGS TYNLLFCGSC GIPVGFHLYS THAALAALRG HFCLSSDKMV CYLLKTKAIV 181 NASEMDIQNV PLSEKIAELK EKIVLTHNRL KSLMKILSEV TPDQSKPEN*

Figure 4

Alignment of 85P1B3 with OIP5.

>gi|2815610|gb|AAC39561.1| (AF025441) Opa-interacting protein OIP5 [Homo sapiens] Length = 231

Score = 462 bits (1189), Expect = e-130Identities = 229/229 (100%), Positives = 229/229 (100%)

85P1B3: 1 MAAQPLRHRSRCATPPRGDFCGGTERAIDQASFTTSMEWDTQVVKGSSPLGPAGLGAEEP 60 MAAQPLRHRSRCATPPRGDFCGGTERAIDQASFTTSMEWDTQVVKGSSPLGPAGLGAEEP

MAAQPLRHRSRCATPPRGDFCGGTERAIDQASFTTSMEWDTQVVKGSSPLGPAGLGAEEP 62 OIP5: 3

85P1B3: 61 AAGPQLPSWLQPERCAVFQCAQCHAVLADSVHLAWDLSRSLGAVVFSRVTNNVVLEAPFL 120
AAGPQLPSWLQPERCAVFQCAQCHAVLADSVHLAWDLSRSLGAVVFSRVTNNVVLEAPFL
OIP5: 63 AAGPQLPSWLQPERCAVFQCAQCHAVLADSVHLAWDLSRSLGAVVFSRVTNNVVLEAPFL 122

85P1B3:121 VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIV 180 VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIV 0IP5: 123 VGIEGSLKGSTYNLLFCGSCGIPVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKAIV 182

85P1B3:181 NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILSEVTPDQSKPEN 229(5CQ 16 NO 730)
OIP5: 183 NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILSEVTPDQSKPEN NASEMDIQNVPLSEKIAELKEKIVLTHNRLKSLMKILSEVTPDQSKPEN 231 (SEQ 16 NO:731)

Sheet 22 of 22 transmembrane —— inside — e: extended strand (13.97%) c: random coil (49.34%) h: alpha helix (36.68%) THMMM posterior probabilities for Sequence No transmembrane domains, soluble protein 150 position QPERCAVFQCAQCHAVLADSVHLAWDLSRSLGAVVFSRVTNNVVLEAPFLVGIEGSLKGSTYNLLFCGSC MAAQPLRHRSRCATPPRGDFCGGTERAIDQASFTTSMEWDTQVVKGSSPLGPAGLGAEEPAAGPQLPSWL снинининининининининининининининиссевеессссевеессевессссссссевееесс GI PVGFHLYSTHAALAALRGHFCLSSDKMVCYLLKTKA IVNA SEMDIQNVPLSEKIAELKEKIVLTHNRL 9 50 . 5 9.5 probability KSLMKILSEVTPDQSKPEN(SEG 15 NO: 719) 1 transmembrane from amino acids 129-149 30 TRared output for unknown 50 hhhhhehccccccccc